

Migration to SAP S/4HANA



Pre-Conversion

These checks will help to find out what mandatory steps we must carry out before converting S/4HANA system. The checks are divided into category such as –

- System Requirement
- Maintenance Planner
- SI-Check
- Custom-code analysis

System Requirement

We need to evaluate system and check out its compatibility regarding OS, DB and Stack (Single/Dual) etc.

- Unicode is needed, due to technical restriction with S/4 kernel. If legacy system is not Unicode, then at first place perform Unicode conversion
- Dual stacks are not supported on SAP HANA. So, perform dual-stack split, if required
- ECC system should be ≥ 6.0 .
- Check minimum required version of DB/OS for conversion into S/4HANA

In tcode **SE38**, check that program **/SDF/HDB_SIZING** is available and you can even run it for test now.

Please use below for troubleshooting if you run into issues. The same program runs later on when scheduling analysis and the job **RC_COLLECT_ANALYSIS_DATA** is run as per STEP 13.

Analysed database	Symptom	Solution
Sybase ASE	Termination with message "SQL ERROR:[ASE Error SQL208.42000][SAP][ASE ODBC Driver][Ada" in the job log or as a pop-up.	SAP Note 2212071
MSSQL	Statistics (record count) collected are obviously incorrect.	SAP Note 1691513
MSSQL	Table analysis fails with message 'sap_get_table_size_info' or runtime is too high	SAP Note 2446530 and 2241493
DB2	Many tables could not be sized and are logged as error. All those tables are tables of type POOL.	Check FAQ document attached to SAP Note 1872170
any	Report terminates with IMPORT_ALIGNMENT_MISMATCH or CONNE_IMPORT_WRONG_COMP_TYPE.	SAP Note 2486479
any	Report terminates with MESSAGE_TYPE_X.	Check FAQ document attached to SAP Note 1872170
any	Report terminates with GETWA_NOT_ASSIGNED in CL_ADK_CCMS_GET_OBJECTS.	SAP Note 2000157
any	Version 64 terminates with CONVT_NO_NUMBER.	Latest sizing report Note
HANA (S/4)	Report terminates with TSV_TNEW_PAGE_ALLOC or any other ABAP memory related error.	Latest sizing report Note + Exclude empty tables

Using the Maintenance Planner for a System Conversion Stack

Custom Code Migration

Stage 1 - Starting SUM

Stage 2 - Setting HANA Parameters in SUM

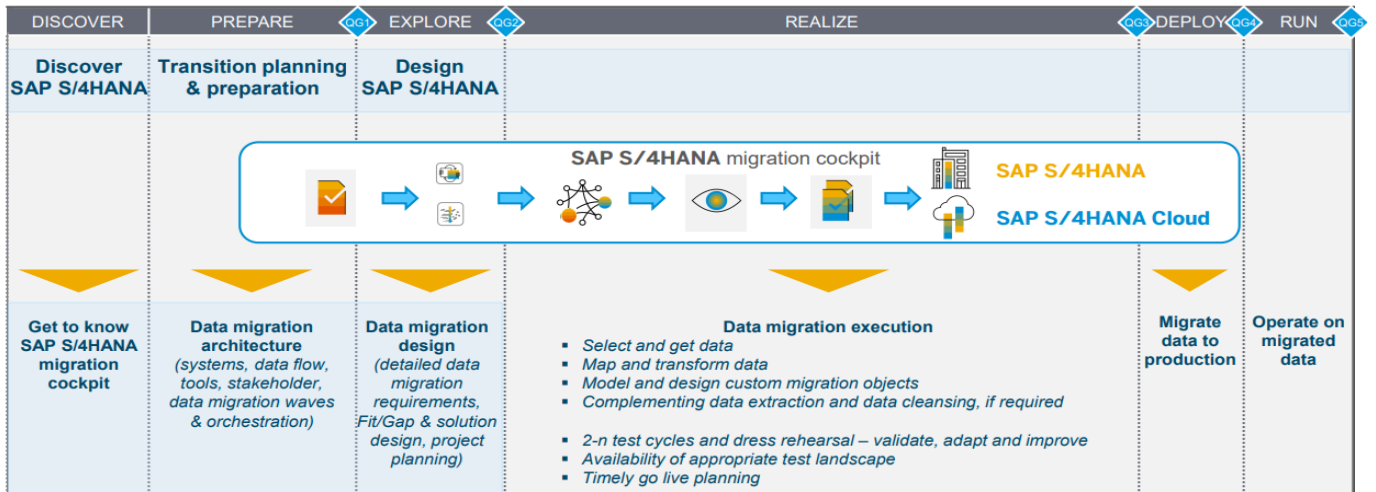
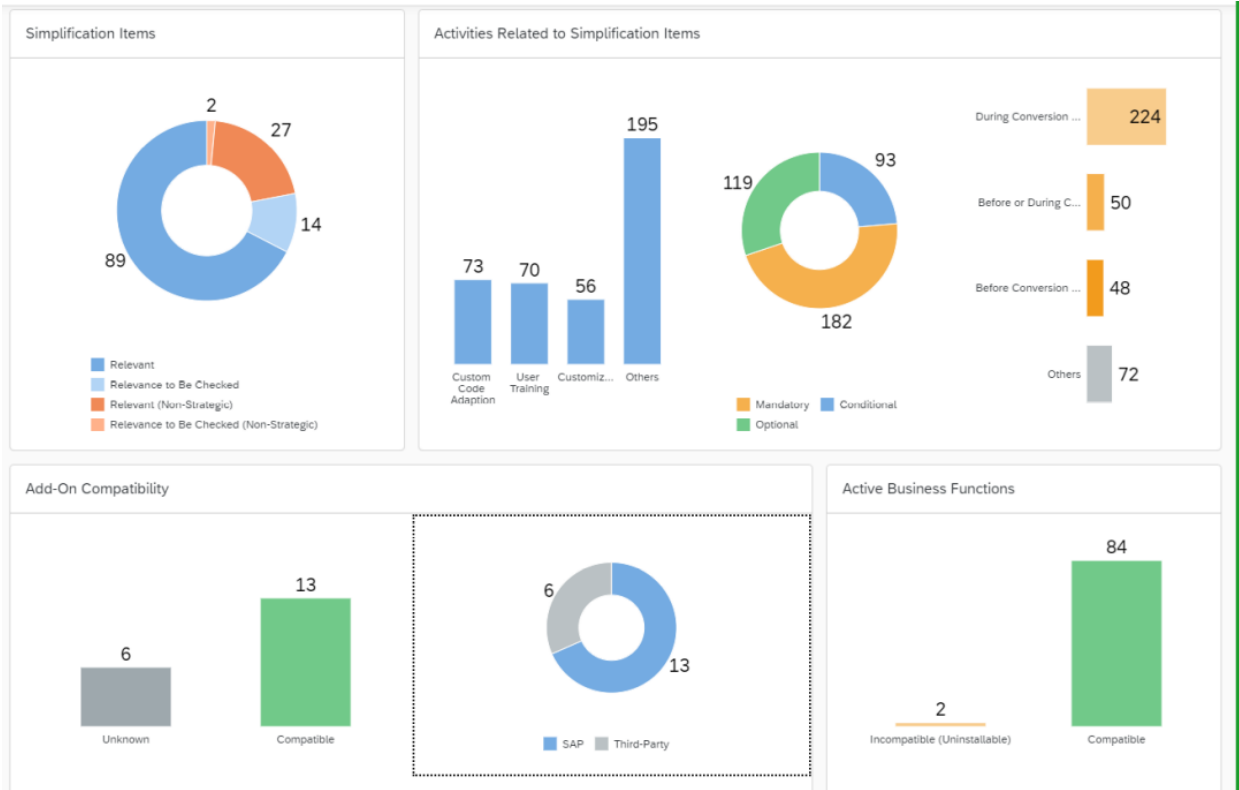
Stage 3 - Source System Downtime

Stage 4 - Monitoring the Migration Cockpit

Stage 5 - Monitoring SAP HANA Studio

Stage 6 - Checking the table ACDOCA

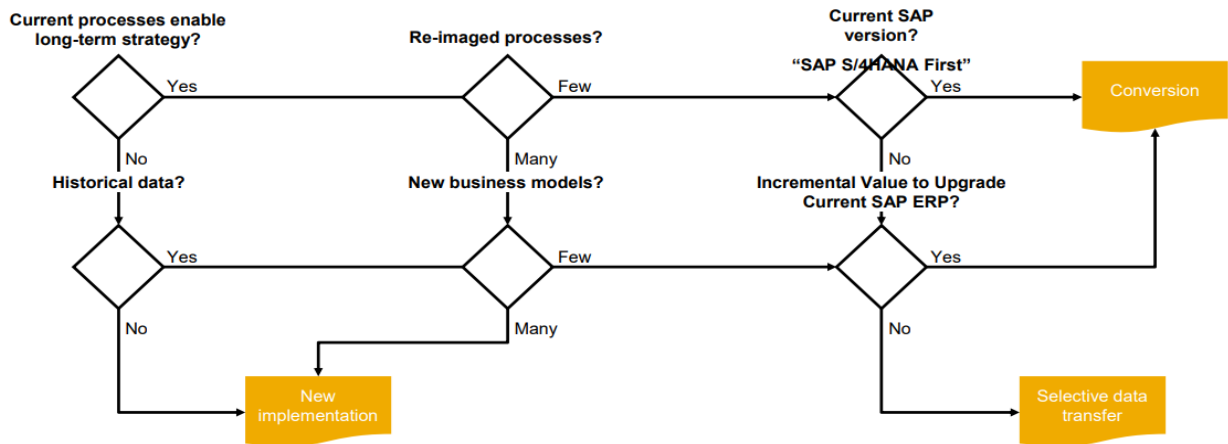
Stage 7 - Examining Fiori Apps after the Conversion



Project lead*	System administrator / Basis lead*	Data migration expert	Application / business contacts
<ul style="list-style-type: none"> ▪ Drives the data migration project at customer side ▪ Responsible for all aspects affecting project setup and project planning ▪ ... 	<ul style="list-style-type: none"> ▪ Drives software download, software installation, installation of notes, system settings, etc. ▪ Responsible to fulfill technical prerequisites such as provision of test landscape, RFC connections, system access & authorizations etc. ▪ ... 	<ul style="list-style-type: none"> ▪ Uses the SAP S/4HANA migration cockpit and complementing tools (if any) ▪ Responsible to execute data migration and track progress ▪ ... 	<ul style="list-style-type: none"> ▪ Act as key contacts for all application-related questions and represent business departments ▪ Clarify business requirements, e.g. define selection criteria and mappings ▪ Conduct functional testing and validate migration result ▪ ...

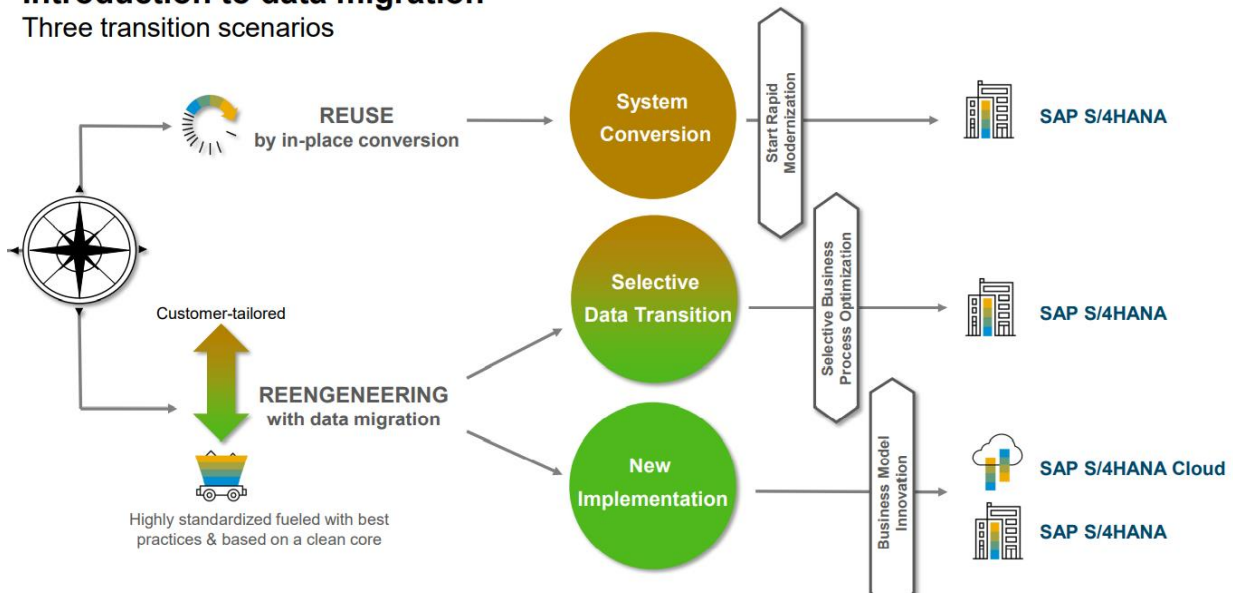
Decision path to S/4HANA

Influencing factors

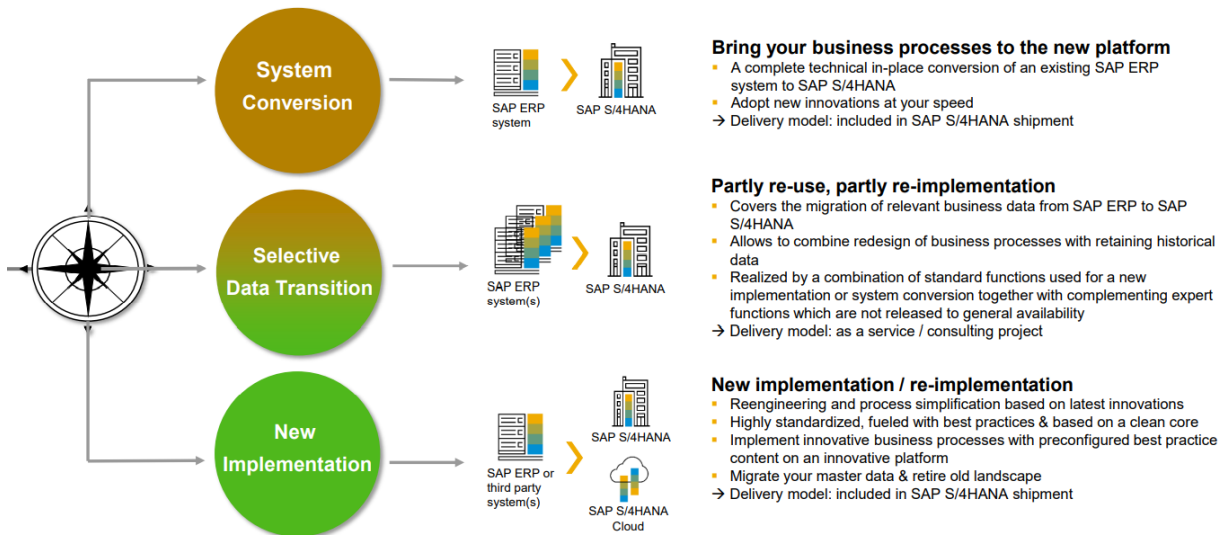


Introduction to data migration

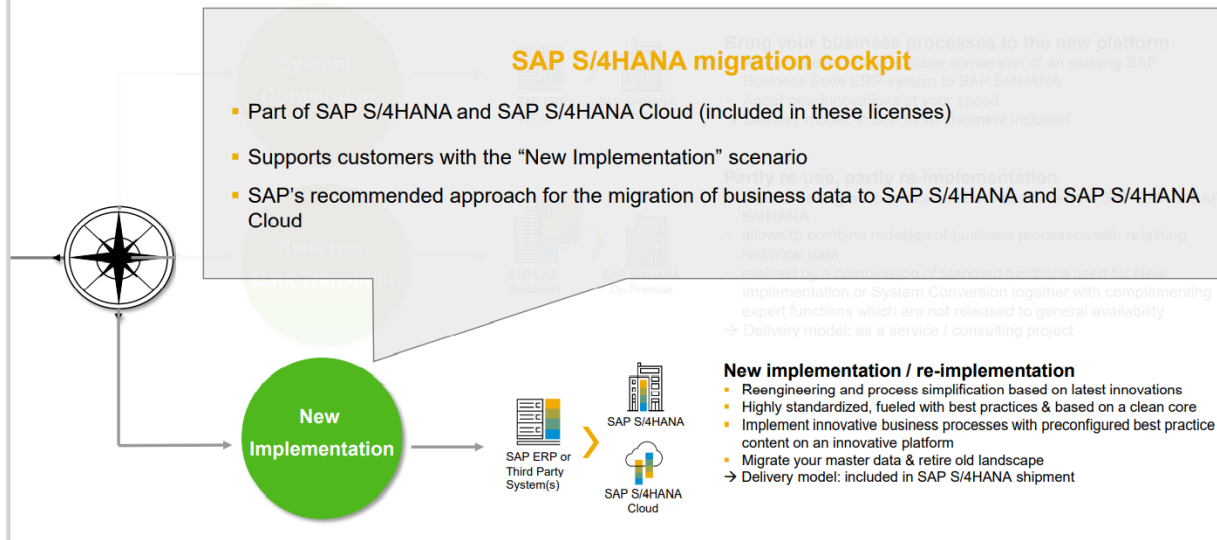
Three transition scenarios



Your way to SAP S/4HANA (1/2)



Your way to SAP S/4HANA (2/2)



SAP S/4HANA migration cockpit at a glance

Data migration to SAP S/4HANA: easy, safe, and accelerated

Key facilitators

- Out-of-the-box
- Available for SAP S/4HANA and SAP S/4HANA Cloud, included in licenses
- Preconfigured migration objects
- No developer skills required
- Step-by-step guidance through the migration process
- Preconfigured migration objects and rules
- Automatized cross-object value mapping

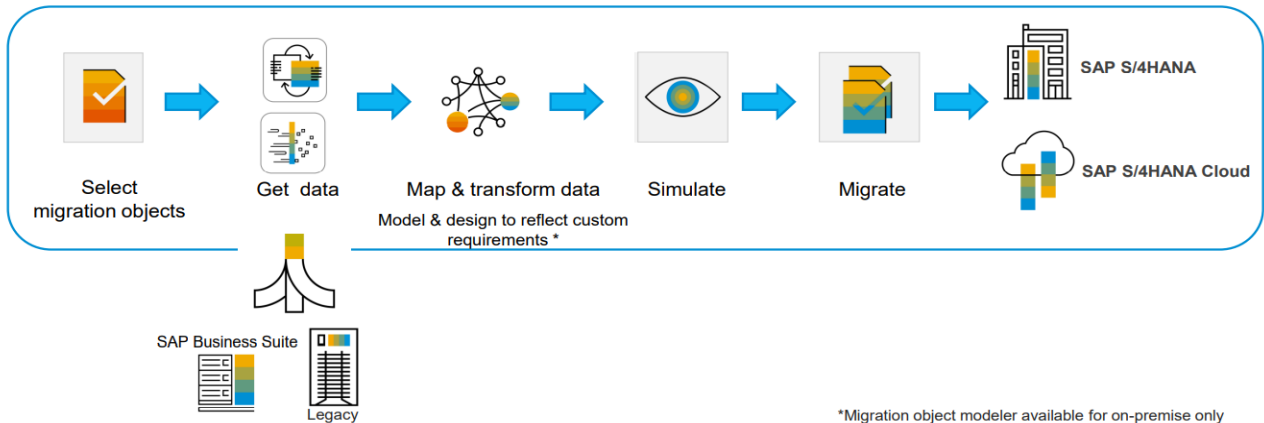
Migration object modeler for custom requirements

Powerful and easy-to-use state-of-the-art modeling environment (SAP S/4HANA only)

Data migration process for new implementation

Data migration

- This is one key task during the transition to SAP S/4HANA
- Make sure to understand your requirements early and plan for them accordingly



SAP S/4HANA migration cockpit

Migration approaches until 1909 - recap



Transfer data using files

- Download template file for relevant migration object
- Populate file with relevant business data
- Upload file to the SAP S/4HANA migration cockpit



Transfer data using Staging Tables

- Staging Tables are created automatically (in an SAP HANA DB schema)
- Populate Staging Tables with business data
- Transfer data from Staging Tables to target SAP S/4HANA system



Transfer data directly from SAP System (new with SAP S/4HANA 1909)

- Transfer data from SAP ERP source system to target SAP S/4HANA system
- Access source system via RFC connection
- Supports data migration scenarios from other applications
 - e.g. from SAP Apparel and Footwear (SAP AFS) to SAP S/4 Fashion and Vertical Business, SAP Extended Warehouse Management (SAP EWM) to Decentralized EWM

SAP S/4HANA migration cockpit – migration approaches



Transfer data using files

- Download template file for relevant migration object
- Populate file with relevant business data
- Upload file to the SAP S/4HANA migration cockpit



Transfer data using Staging Tables

- Staging Tables are created automatically (in an SAP HANA DB schema)
- Populate Staging Tables with business data
- Transfer data from Staging Tables to target SAP S/4HANA system



Migrate data using Staging Tables

- Staging Tables are created automatically (either locally or in a remote system)
- Populate Staging Tables with business data
 - ✓ Using XML template files is one possibility to populate Staging Tables
 - ✓ Using SAP or third-party ETL tools is another possibility to populate Staging Tables
- Transfer data from Staging Tables to target SAP S/4HANA System

SAP S/4HANA migration cockpit – benefits for combined approach



- Improved user experience
- Mix file and staging possibilities in one approach (= one project)
- Easier way to populate Staging Tables
- Instance-based status tracking and messages
- Improved capability of downloading & uploading mapping values



- All data is stored in Staging Tables
- Use either local SAP S/4HANA DB (local connection) or remote SAP HANA DB connection
- Delivered XML template files ease population of Staging Tables
- Still other tools (external or SAP) can be used for populating Staging Tables

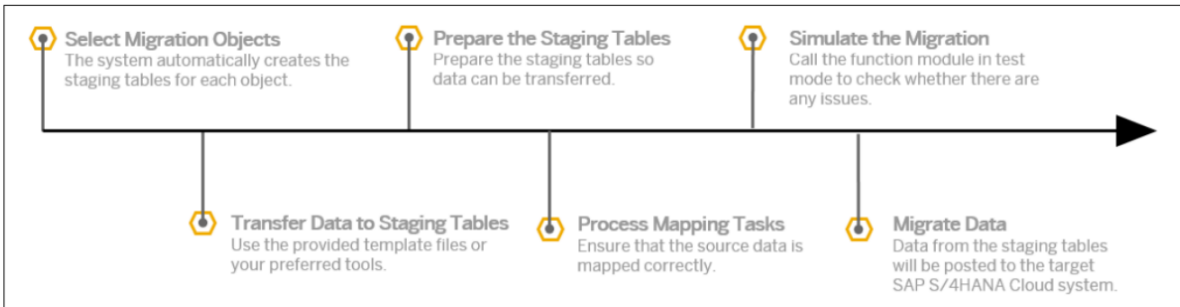


- State-of-the-art user experience with Fiori UI
- Faster UI response time
- Processing of multiple objects at once possible
- Progress tracking during simulation / migration

SAP S/4HANA migration cockpit – migrate data using Staging Tables



Process flow



SAP S/4HANA migration cockpit – migrate data using Staging Tables



Create new project

The Fiori App includes now both migration approaches. Choose your migration approach.

There are two options to transferring data to S/4HANA:

- Migrate data directly from SAP system
- Migrate data using Staging Tables

Name	Status	Created By	Migration Approach / Scenario	Connection to Source System	Migration Objects
Test_Lisa					
Maintenance_Notification	In Process	28.08.2020, 08:37:28	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HAN	RFC Connection	1
Variant_Table_Structure	In Process	28.08.2020, 08:12:47	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
lat_test	Not Started	28.08.2020, 07:22:41	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	6
Demo_DT_2020	In Process	27.08.2020, 17:42:14	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	2
Material_Consumption	In Process	27.08.2020, 11:37:55	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
Equipment	In Process	27.08.2020, 08:23:22	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
Material_Commodity	In Process	27.08.2020, 08:18:50	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Create new project II



Specify details for your migration project.

1. General Data

Here, you specify general information for your project. Note that it will not be possible to change the mass transfer ID or the database connection after you create the project.

Migration Approach: Migrate Data Using Staging Tables

Name: New Migration Project

Mass Transfer ID: OLU [Display Next Available](#)

Database Connection:

- Local SAP S/4HANA Database Schema
- Remote SAP HANA Database Schema

Local SAP S/4HANA database

- System will generate Staging Tables in the internal schema of the SAP S/4HANA system
- Use this option if you only want to use XML template files to fill the Staging Tables with data

Remote SAP HANA database

- System will generate Staging Tables in a remote SAP HANA DB Schema
- Prerequisite: valid database connection (please refer to [KBA 2733253](#))
- Select this option if you want to fill the staging table with data by using your preferred tools

Step 2

Cancel

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Create new project – choose migration objects



The migration cockpit delivers a larger quantity of migration objects depending on the selected migration scenario.

2. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

prod

Available Migration Objects

Name	Predecessor	Documentation
<input type="checkbox"/> DG - Assessment for packaged product (text-based)	1	Documentation
<input type="checkbox"/> DG - Assessment for unpackaged product (content-based)	1	Documentation
<input type="checkbox"/> DG - Assessment for unpackaged product (text-based)	1	Documentation
<input checked="" type="checkbox"/> Product	2	Documentation
<input checked="" type="checkbox"/> Product - extend existing record by new org levels	3	Documentation
<input type="checkbox"/> Product classification - Commodity code	1	Documentation
<input type="checkbox"/> Product classification - Legal control	1	Documentation
<input checked="" type="checkbox"/> Product consumption	1	Documentation
<input checked="" type="checkbox"/> Production version	3	Documentation

Selected Migration Object

Select migration objects - click on button [>](#)
To continue with next step click on "Review" [Review](#)

2. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

prod

Available Migration Objects

Name	Predecessor	Documentation
<input type="checkbox"/> DG - Assessment for packaged product (text-based)	1	Documentation
<input type="checkbox"/> DG - Assessment for unpackaged product (content-based)	1	Documentation
<input type="checkbox"/> DG - Assessment for unpackaged product (text-based)	1	Documentation
<input type="checkbox"/> Product	2	Documentation
<input type="checkbox"/> Product - extend existing record by new org levels	3	Documentation
<input type="checkbox"/> Product classification - Commodity code	1	Documentation
<input type="checkbox"/> Product classification - Legal control	1	Documentation
<input type="checkbox"/> Production version	3	Documentation
<input type="checkbox"/> PSS - Product compliance info	2	Documentation

Selected Migration Object

Name	Predecessor	Documentation
<input type="checkbox"/> Product	2	Documentation
<input type="checkbox"/> Product - extend existing record by new org levels	3	Documentation
<input type="checkbox"/> Product consumption	1	Documentation

Review

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Create new project – confirm



The migration cockpit creates the project with your selected migration objects.

1. General Data

Name: New Migration Project
Mass Transfer ID: OLU
Migration Approach: Migrate Data Using Staging Tables
Scenario: Default Scenario
Database Connection: Local SAP S/4HANA Database Schema

2. Migration Objects

Name	Predecessor	Documentation	Edit
Product	2	Documentation	
Product - extend existing record by new org levels	3	Documentation	
Product consumption	1	Documentation	

Confirm your data selection by choosing the *Create Project* button.

[Create Project](#) [Cancel](#)

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Migration project screen – more buttons



On the **migration project** screen, you trigger all the steps that are required to transfer the data for each migration object to the target SAP S/4HANA system. In addition you can quick access additional information and tasks.

New Migration Project | Running Activiti... 0

Monitoring | Mapping Tasks | Job Management | Settings | Finish Project

Migration Approach: Migrate Data Using Staging Tables | Mass Transfer ID: OLU | Database Connection: Local

Show All

Migration Object	Data	M
<input type="checkbox"/> Migration Object	Tables: 16	O
<input type="checkbox"/> Product	Instances: 0	D
<input checked="" type="checkbox"/> Product - extend existing record by new org levels	Tables: 16	O
1 Predecessor Objects	Instances: 0	D
<input type="checkbox"/> Product consumption	Tables: 3	O
1 Predecessor Objects	Instances: 0	D

Buttons for quick access:

- Monitoring – to view a log of all activities
- Mapping tasks – all mapping tasks for your project
- Job management – adjust number of background jobs
- Settings – general settings e.g. add new migration objects
- Finish project

See more details in application help.

Open: 0 | Errors: 0 | Errors: 0 | Done: 0 | Successful: 0 | Successful: 0 | Migration Not Started | Upload File

SAP S/4HANA migration cockpit –migrate data using Staging Tables

Trigger actions via drop down list



The migration cockpit guides you through the various steps of the data migration. You can also flexibly choose which steps you want to do next (select, mapping tasks, simulate, migrate).

The screenshot shows the SAP Migration Project cockpit interface. At the top, it displays 'New Migration Project' and 'Running Activities: 0'. The migration approach is 'Migrate Data Using Staging Tables' with a 'Mass Transfer ID: OLU' and 'Database Connection: Local'. A table lists migration objects with columns for Data, Mapping Tasks, Simulation, Migration, and Migration Progress. The 'Product' object is selected, and its 'Action' dropdown menu is open, showing options like 'Upload File', 'Prepare', 'Mapping Tasks', 'Simulate', 'Migrate', and 'Create Correction File'. A callout box points to the 'Upload File' option with the text: 'The system proposes the next action to be performed. For example "Upload File" - here, you start the action for one object only.'

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/> Migration Object	Tables: 16	Open: 3	Errors: 0	Errors: 0		
<input type="checkbox"/> Product	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	Upload File
<input type="checkbox"/> Product - extend existing record by new org levels	Tables: 16			Not Started: 0		
<input type="checkbox"/> 1 Predecessor Objects	Instances: 0					
<input type="checkbox"/> Product consumption	Tables: 3	Open: 0	Errors: 0	Errors: 0		
<input type="checkbox"/> 1 Predecessor Objects	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	
				Not Started: 0		

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Migration project screen – object documentation

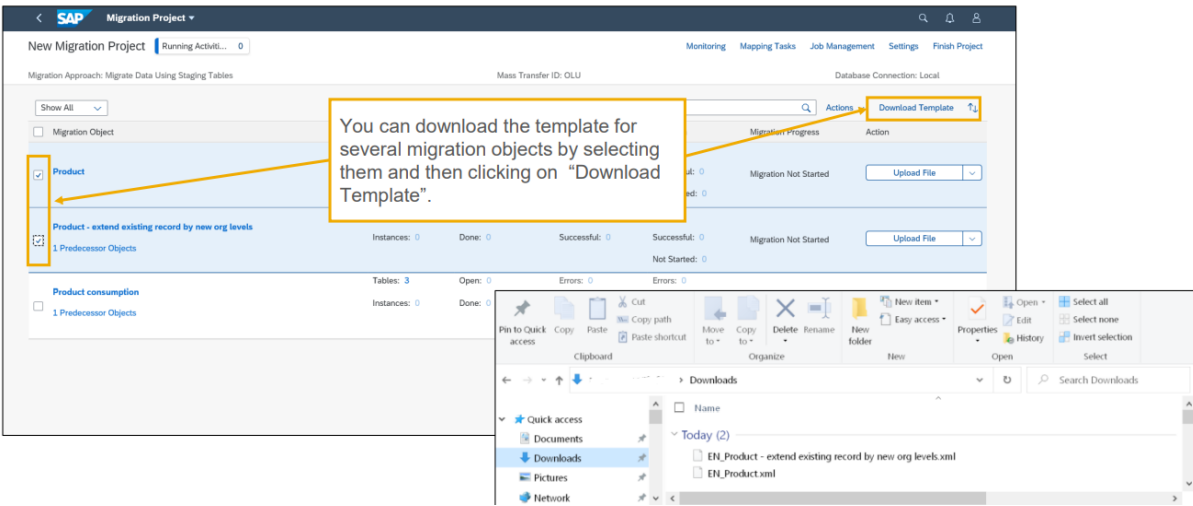


On the migration object screen, you get detailed information about a migration object.

The screenshot shows the SAP Migration Object cockpit interface. The main table is visible, with the 'Product - extend existing record by new org levels' object selected. A callout box points to the 'here' link in the documentation section with the text: 'To display the documentation for a migration object select the link "here". This will directly forward you to the migration object documentation on help.sap.com (Application Help).'

Product - extend existing record by new org levels
New Migration Project
Status: Ready for Processing
Documentation Views Table Structure History Dependencies Technical Information
You can access the documentation for the migration object [here](#).

The migration cockpit provides XML template files for all delivered migration objects.

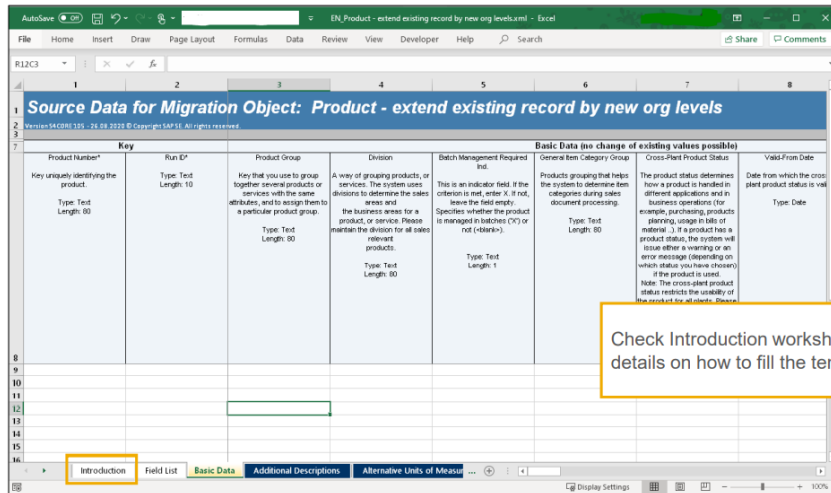


SAP S/4HANA migration cockpit – migrate data using Staging Tables

Populate the XML template file with data



In the XML template files please check introduction worksheet to gain information on how to fill the template.



SAP S/4HANA migration cockpit – migrate data using Staging Tables

Viewing migration object instances



The migration cockpit provides details on the records for each migration object instance.

The screenshot shows the 'Migration Object Instances' view in the SAP Migration Cockpit. It displays a list of migration objects with columns for Product Number, Product Type, Product Group, Industry Sector, Description, Additional Fields, Source, and Action. A callout box highlights the 'Instances' column, indicating that clicking on the instance count allows users to view the records for that specific migration object instance.

Product Number	Product Type	Product Group	Industry Sector	Description	Additional Fields	Source	Action	Status
Test_001	Trading goods (HAW)	Trading Materials (202)	Test Product 001	Test Product 001	Display All	EN_Product+H202000 E2027542	Name	Initial
Test_002	Semi-finished Products (HALB)	Semi-finished Goods (302)	Test Product 002	Test Product 002	Display All	EN_Product+H202000 E2027542	Name	Initial
Test_003	Semi-finished Products (HALB)	Semi-finished Goods (302)	Test Product 003	Test Product 003	Display All	EN_Product+H202000 E2027542	Name	Initial
Test_004	Raw materials (ROH)	Raw Materials (102)	Test Product 004	Test Product 004	Display All	EN_Product+H202000 E2027542	Name	Initial
Test_005	Finished Products (FERT)	Finished Goods (502)	Test Product 005	Test Product 005	Display All	EN_Product+H202000 E2027542	Name	Initial

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Mapping tasks - specify mapping values



On the **Mapping Tasks** screen, you can view all the mapping tasks, you can maintain the value mapping and you can confirm them.

The screenshot shows the 'Mapping Tasks' screen in the SAP Migration Cockpit. It displays a list of mapping tasks on the left and a detailed view of a 'Fixed value for Controlling Area' on the right. A callout box explains that users can specify value mapping and transform values from the source system to the target system. Another callout box points to a search field, stating that search help for target values provides existing values in the SAP S/4HANA target system.

Mapping Task	Status
Fixed value for Controlling Area	To be confirmed
Product internal or external numbering	To be confirmed
Use Product ID for integration with external systems	To be confirmed

Values (1)	Customizing	Status	Action
<input type="checkbox"/> Default	<@Rank>	To be confirmed	Confirm
<input type="checkbox"/> A000			

Target Value	Description
0001	Koellernchonglens 0001
0002	SAP-UP (SAP-ent)
0003	Koellernchonglens 0003
0004	Koellernchonglens 0004
0005	Koellernchonglens 0005
0006	Koellernchonglens 0006
0007	IS-B Masterbank Deutsch
0008	test
1000	CO Europe
3333	Controlling Area 3333
4001	ABEA Consulting
4002	ABEA Consulting
4003	ABEA Consulting
4004	Koellernchonglens_P01

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Download mapping XML templates



On the **Mapping Tasks** screen, you can download empty templates or download / upload mapping values.

Download mapping template files are available for each mapping task.

Select mapping task – click “Download Mapping Template”.

You can use this template files instead of specifying the values manually. If files are filled, you can upload the values by clicking on “Upload Values”.

Select Mapping Tasks

Selected: 5

- Fixed value for Controlling Area
- Mapping of ABC Indicator
- Mapping of ANP Code
- Mapping of Account Assignment Group
- Mapping of Assignment Schema
- Mapping of Availability Check
- Mapping of Batch Entry
- Mapping of Billing Code

Download Mapping Templates | Upload Values

Name	Date modified	Type	Size
Fixed value for Controlling Area.xml	8/27/2020 3:37 PM	XML Document	14 KB
Mapping of ABC Indicator.xml	8/27/2020 3:37 PM	XML Document	13 KB
Mapping of account assignment group.xml	8/27/2020 3:37 PM	XML Document	13 KB
Mapping of ANP Code.xml	8/27/2020 3:37 PM	XML Document	13 KB
Mapping of Assignment Schema.xml	8/27/2020 3:37 PM	XML Document	13 KB

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Populate XML mapping template file with data



Enter your mappings in the downloaded template.

Parameter Name	Type	Typing	Associated Type	Data Type	Length	Decimals
IV_MAABC	Import Parameter			CHAR	80	
EV_MAABC	Export Parameter			CHAR	1	

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Instance based messaging



On the **Migration Object Instances** screen, you can view all messages related to one migration object.

Type	Message	Message Class	Message Number	Date and Time
Warning	MAP_BESID: Mapping value have different lengths; Kanban for 1710(KANBAN1710) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_BKLS: Mapping value have different lengths; Trading Goods(3100) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_BWKEY: Mapping value have different lengths; Plant 1 US(1710) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_CK_ML_ABST: Mapping value have different lengths; Transaction-Based(2) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_DISLS: Mapping value have different lengths; Fixed order quantity(FX) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_DSLS: Mapping value have different lengths; Lot-for-lot order quantity(EX) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_DSMM: Mapping value have different lengths; Reorder-Point Planning(VB) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_HSRPO: Mapping value have different lengths; MRP Controller 001(001) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_DWERK: Mapping value have different lengths; Plant 1 US(1710) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_EKGRP: Mapping value have different lengths; Group 002(002) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Warning	MAP_IPRKZ: Mapping value have different lengths; Day(2) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Job management - improving performance



On the **Migration Project** screen, use the button Job Management to adjust job settings.

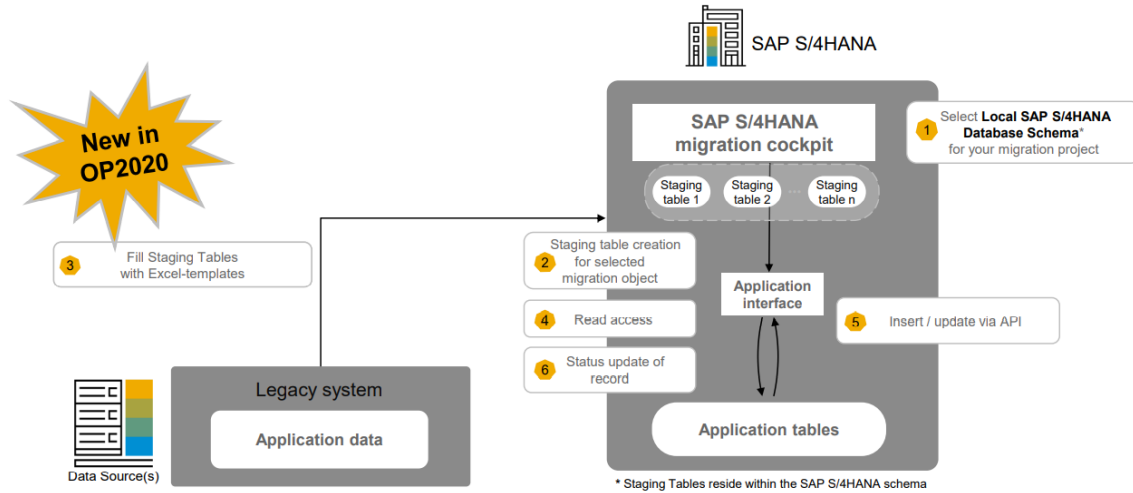
Adjust the maximum number of background jobs used for your project.

You can also adjust the maximum number of jobs to be used per migration object.

Name	Maximum Number Used
Product	1
Product - extend existing record by new org levels	1

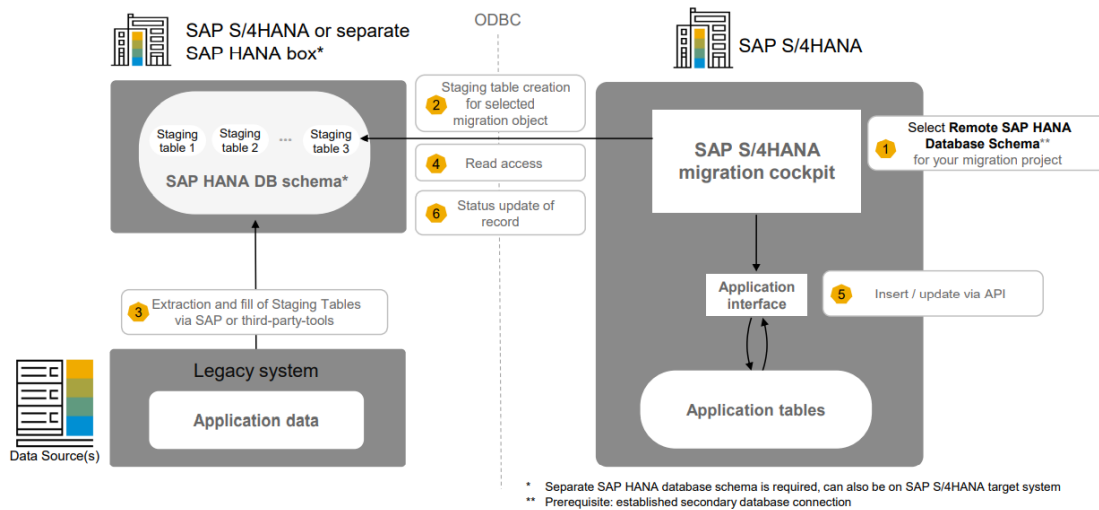
SAP S/4HANA migration cockpit - transfer data using Staging Tables

System setup SAP S/4HANA Local SAP S/4HANA Database Schema



SAP S/4HANA migration cockpit - transfer data using Staging Tables

System setup SAP S/4HANA Remote SAP HANA Database Schema



SAP S/4HANA migration cockpit - migrate data using Staging Tables



Key takeaways – news in 2020

1. One harmonized user experience using Fiori UI for all approaches
2. Processing of multiple objects at once possible
3. Instance-based status tracking and messages
4. Progress tracking during simulation / migration
5. Mapping upload/download in Fiori app – templates or with populated values
6. Projects created using transaction LTMC (WebDynpro) cannot be converted to new SAPUI Fiori app but will be available as read-only from 2021 onwards for on-premise.

SAP S/4HANA migration cockpit – migrate data using Staging Tables



Migration object modeler

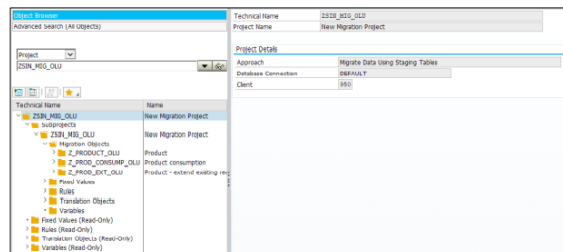


Flexible and extendable

- Copy migration objects
- Adjust standard migration objects (e.g. add fields)
- Add customer tables or fields to a standard migration object or to a new migration object
- Export / import a project from one system to another system
- Simulate / debug import of data from Staging Tables
- Create user defined migration objects
- Use standard APIs or code your function module
- Create or edit translation objects and rules
- Use project in a different client



**Transaction:
LTMOM**





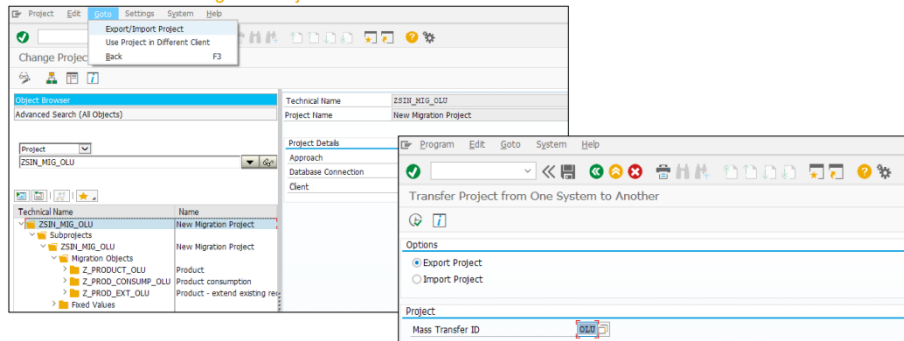
SAP S/4HANA migration cockpit – migrate data using Staging Tables

Export / import projects

Before SAP S/4HANA 2020: You export / import projects using transaction LTMC.

As of SAP S/4HANA 2020 and for projects created with the Fiori App: You export / import projects using transaction LTMOM (migration object modeler).

SAP S/4HANA 2020 – migration object modeler



SAP S/4HANA migration cockpit – XML template



Important information

- Enter legacy data in generated XML file template for the selected migration object
- Default size limit for each uploaded XML or ZIP file is 100 MB
- The knowledge base article [KBA 2719524](#) contains further information about increasing file size limits for SAP S/4HANA and zipping files for SAP S/4HANA Cloud and SAP S/4HANA



Recommendations

- Read introduction and check field list before starting filling the template
- Unhide and read the tooltips (line 8)
- Copy and paste values only using the following options:
 - Paste option then Values (V) - within XML file
 - Paste special and then choose Text - from somewhere else
 - Paste option then keep text only - from notepad/text editor

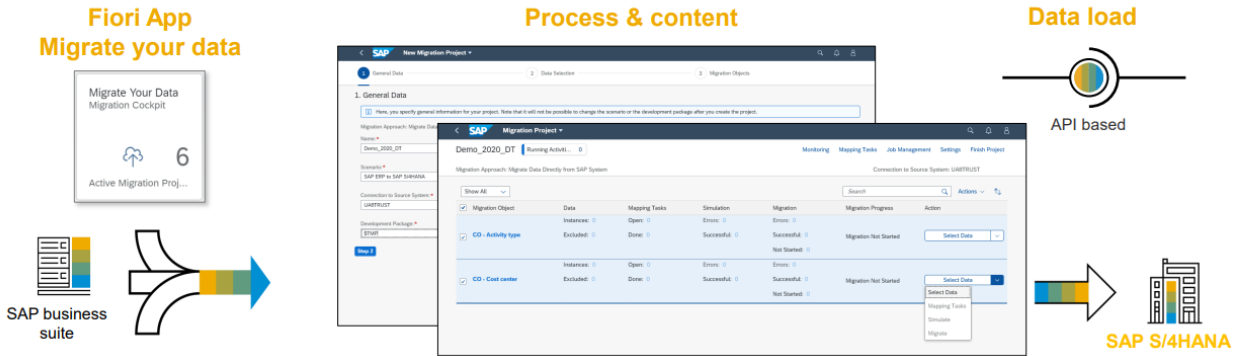
Migration file template for Bank

Sheet Name	Group Name	Field Description	Importance	Type	Length
Bank Master (mandatory)					
	Key	Bank country key	mandatory for sheet	Text	80
		Bank key	mandatory for sheet	Text	80
	Address	Name of bank	mandatory for sheet	Text	60
		Region (State, Province, Country)		Text	80
		House number and street		Text	35
		City		Text	40
		Bank branch		Text	40

S_BNKA				
BANKS	BANKL	BANKA	PROVZ	STRAS
Key		Address		
Bank country key*	Bank key*	Name of bank*	Region (State, Province, Country)	House number and street
Identifies the country in which the bank is located. The country key defines the rules according to which bank data, such as the bank and account number, is to be validated. Type: Text Length: 80	In this field, you specify the bank key under which bank data from the respective country is stored. The length of bank key is decided on bank country. For example, if bank country is DE, length of bank key must have length 8; if bank country is IT, length of bank key must have length 10.	Type: Text Length: 60	In some countries, the region forms part of the address. The meaning depends on the country. Type: Text Length: 80	Street and house number as part of the address. Type: Text Length: 35

SAP S/4HANA migration cockpit Migrate data directly from SAP system

SAP S/4HANA migration cockpit – migrate data directly from SAP system



SAP S/4HANA2020: +140 Migration objects



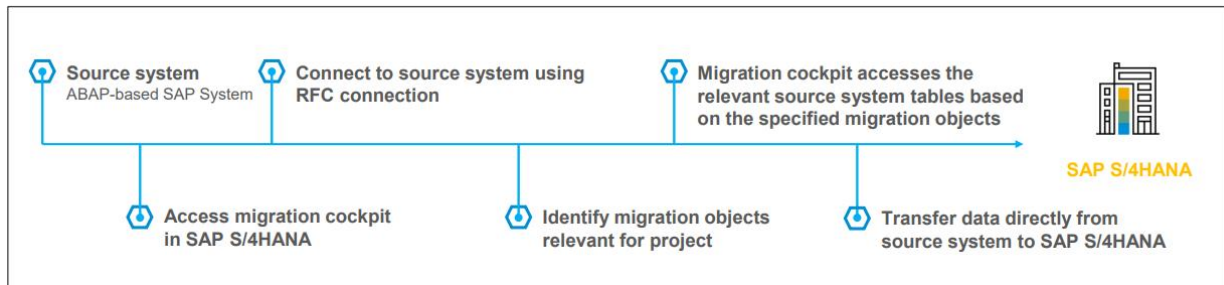
Available for:

- SAP ERP 6.0 to SAP S/4HANA
- SAP Apparel and Footwear Solution (SAP AFS) 6.0 to SAP S/4HANA
- SAP Extended Warehouse Management to Decentralized EWM based on SAP S/4HANA
- SAP CRM to SAP S/4HANA for customer management

Predefined selection criteria is depending on migration scenario.

SAP S/4HANA migration cockpit

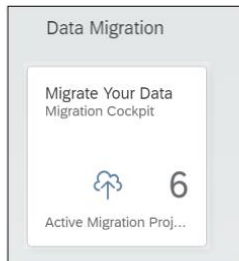
Migrate data directly from SAP source system



- Suitable for ABAP-based SAP source systems only
- Four migration scenarios supported
 - SAP ERP to SAP S/4HANA
 - SAP Apparel and Footwear to SAP S/4HANA
 - SAP EWM to decentralized EWM based on SAP S/4HANA
 - SAP CRM to SAP S/4HANA for customer management (SAP S/4HANA 1909 FPS01 onwards)

SAP S/4HANA migration cockpit – Direct Transfer

Start the App



Start the “Migrate Your Data” App

- The SAP S/4HANA migration cockpit facilitates the transfer of business data from an SAP source system to SAP S/4HANA.
- The SAP S/4HANA migration cockpit is designed for an initial load of data, specifically for the SAP S/4HANA new implementation scenario. It is not designed to keep data in sync between systems, to realize a continuous exchange or flow of data, or to establish an integration scenario.
- SAP S/4HANA systems are currently not supported as source systems.

SAP S/4HANA migration cockpit – Direct Transfer

Create new migration project - general data



1. General Data

Here, you specify general information for your project. Note that it will not be possible to change the scenario or the development package after you create the project.

Migration Approach: Migrate Data Directly from SAP System

Name: Demo_2020_DT

Scenario: SAP ERP to SAP S/4HANA

Connection to Source System: UA8TRUST

Development Package: \$TMP

Selection of relevant scenario:

- SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA
- SAP CRM to SAP S/4HANA Service
- SAP ERP to SAP S/4HANA
- SAP EWM to Decentralized EWM based on SAP S/4HANA

Enter the relevant RFC connection to the SAP Source System.

Enter a development package, so that you can transport your project to another system.
Note: If you enter \$TMP you will not be able to add your project to a transport request, this means, the project is only locally available in the client and system, where you created the project.

SAP S/4HANA migration cockpit – Direct Transfer

Create new migration project - data selection



The migration cockpit delivers preconfigured data selection criteria depending on the migration scenario.

2. Data Selection

The Migration Cockpit uses organizational units such as company codes to select data from the source system. These organizational units are predefined for each scenario. For example, the scenario SAP ERP to SAP S/4HANA uses company codes to select data from the source system.

Only data that is relevant for the specified organizational units will be selected from the source system.

Company Code: *
0001 (SAP A.G.) x

Step 3

Preconfigured data selection based on key organization units, depending on migration scenario, e.g. company codes for SAP ERP to SAP S/4HANA

SAP S/4HANA migration cockpit – Direct Transfer

Create new migration project - migration objects



The migration cockpit delivers a larger quantity of migration objects depending on the selected migration scenario.

3. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

Search

Available Migration Objects	Predecessor	Documentation
<input type="checkbox"/> Bank		Documentation
<input type="checkbox"/> Batch unique at material and client level	4	Documentation
<input type="checkbox"/> Batch unique at plant level	4	Documentation
<input type="checkbox"/> Business partner	1	Documentation
<input type="checkbox"/> Catalog code group and code	1	Documentation
<input type="checkbox"/> Characteristic	1	Documentation
<input type="checkbox"/> Class	3	Documentation
<input type="checkbox"/> CO - Activity type group		Documentation
<input type="checkbox"/> CO - Business process	4	Documentation

Selected Migration Object	Predecessor	Documentation
<input type="checkbox"/> CO - Activity type	2	Documentation
<input type="checkbox"/> CO - Cost center	3	Documentation

Mark the relevant migration objects and add them to your project.

Preconfigured migration content: List of available migration objects relevant for the selected scenario (e.g. SAP ERP to SAP S/4HANA).

Review

SAP S/4HANA migration cockpit – Direct Transfer

Create new migration project - confirm



The migration cockpit delivers a larger quantity of migration objects depending on the selected migration scenario.

1. General Data

Name: Demo_2020_DT
Migration Approach: Migrate Data Directly from SAP System
Scenario: SAP ERP to SAP S/4HANA
Connection to Source System: UABTRUST
Development Package: \$TMP

2. Data Selection

Company Code: 0001 (SAP A.G.)

3. Migration Objects

Name	Predecessor	Documentation
CO - Activity type	2	Documentation
CO - Cost center	3	Documentation

Confirm your data selection by choosing the *Create Project* button.

SAP S/4HANA migration cockpit – Direct Transfer

Migration process



The migration cockpit guides you through the various steps of the data migration. You can also flexibly choose which steps you want to do next (select, mapping tasks, simulate, migrate).

Migration Project

Demo_2020_DT | Running Activiti... 0

Monitoring | Mapping Tasks | Job Management

Migration Approach: Migrate Data Directly from SAP System

Connection to Source System: UABTRUST

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input checked="" type="checkbox"/>	Instances: 0 Excluded: 0	Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	<input type="button" value="Select"/> <input type="button" value="Simulate"/> <input type="button" value="Migrate"/>
<input checked="" type="checkbox"/>	Instances: 0 Excluded: 0	Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	<input type="button" value="Select Data"/> <input type="button" value="Mapping Tasks"/> <input type="button" value="Simulate"/> <input type="button" value="Migrate"/>

You can execute actions for **several or all** migration objects in your project.

The system proposes "Select Data" as the next action. You can start the selection for **one object only**.

SAP S/4HANA migration cockpit – Direct Transfer

Migration object screen - overview



On the **Migration Object** screen, you get detailed information about a migration object.

The screenshot shows the SAP Migration Object overview for 'CO - Activity type'. At the top, there are statistics: Instances: 0, Open: 3, Errors: 0, Done: 0, Successful: 0, and Migration Not Started. A 'Select Data' button is visible. The main content area has tabs for Documentation, Table Structure, History, Dependencies, and Technical Information. A callout box points to the 'CO - Activity type' label in the migration object column, stating: 'To get detailed information about a migration object, click the migration object name in the migration object column.' Another callout points to a link in the documentation section: 'You find a direct link to the migration object documentation in the SAP Help Portal.' A third callout points to the main content area, stating: 'The system displays the migration object screen, where you can view the following information: Link to SAP Help Portal Documentation, Table structure, History of events, including logs, Dependencies to other migration objects, and Technical information (relevant for support)'. The 'Table Structure' section shows a hierarchy: Activity master (CSLA) and Activity type texts (CSLT). The 'History' section shows a table with 5 entries.

SAP S/4HANA migration cockpit – Direct Transfer

Migration object screen – table structure and history



On the **Migration Object** screen, you get information on the table structure and the history.

The screenshot shows the 'Table Structure' and 'History' sections of the SAP Migration Object screen. The 'Table Structure' section shows a hierarchy of tables: 'Activity master' (Technical Table Name: CSLA) and 'Activity type texts' (Technical Table Name: CSLT). A callout box states: 'In the Table Structures section, you see the relevant source system tables for the migration object. The system displays the source system tables in a hierarchy.' The 'History' section shows a table with 3 entries. A callout box states: 'In the History section you see the different actions for the migration object. You can also view the log for each action regarding this object.' The history table has columns for Action, Started By, Started On, Finished On, and Messages.

Action	Started By	Started On	Finished On	Messages
Selection completed		16.07.2020, 17:43:28	16.07.2020, 17:49:01	Show Messages
Prepare object completed		16.07.2020, 17:30:37		
Copy completed		16.07.2020, 17:29:52		

SAP S/4HANA migration cockpit – Direct Transfer

Selection/reselection of data



If you have already selected data and choose the selection button again, you have the possibility to reselect the data.

Reselection of data

- add new data from the source system to already selected data (available since SAP S/4HANA 1909 – default behavior)
- delete former selection and select completely new (available as of SAP S/4HANA 2020)

Data Already Selected

⚠ Data has already been selected for this migration object. You can either delete all selected data (except for data that has already been migrated) and start a completely new selection, or you can add additional instances to the existing selected data.

General Data
Connection to Source System: [REDACTED]
Data Selection
Company Code:
[0001]

New Selection Add Additional Instances Cancel



If you work with SAP S/4HANA 1909, you can use the report mentioned in the following [SAP Note 2857598](#) to delete the former selection and repeat the selection of data.

SAP S/4HANA migration cockpit – Direct Transfer

Maintain value mapping



On the **Mapping Tasks** screen, you can view all the mapping tasks, you can maintain the value mapping and you can confirm them.

The screenshot shows the SAP Mapping Tasks interface. On the left, there are filters for Mapping Task, Activity Type, Controlling Area, and Cost Element. The main area displays a table of mapping tasks with columns for Source Controlling Area, Source Activity Type, Target Activity Type, Status, and Action. A search help window is open, showing a list of target values with descriptions.

Source Controlling Area	Source Activity Type	Target Activity Type	Status	Action
<input type="checkbox"/>	0001	000101	To be confirmed	Confirm
<input type="checkbox"/>	0001	000102	To be confirmed	
<input type="checkbox"/>	0001	000103	To be confirmed	
<input type="checkbox"/>		000104	To be confirmed	
<input type="checkbox"/>		000105	To be confirmed	
<input type="checkbox"/>	A		To be confirmed	
<input type="checkbox"/>	0001	ACT1	To be confirmed	
<input type="checkbox"/>	0001	ACT2	To be confirmed	

Search help provides existing values in the SAP S/4HANA target system.

Target value	Description
000101	Production LABOUR
000102	MACHINE HOURS
000103	Maintenance Electric
000104	test
000105	SETUP HOURS
010101	Production LABOUR
010102	MACHINE HOURS
010103	Maintenance Electric

You can specify value mappings and transform values from the source system to the target system.



The mapping tasks will be filled with values only after the system has selected the data from the source system. Without selection, the mapping tasks will be empty.

SAP S/4HANA migration cockpit – Direct Transfer



Mapping upload download

On the **Mapping Tasks** screen, you can download empty templates or download / upload mapping values.

The screenshot shows the SAP Mapping Tasks interface. Callouts provide the following information:

- You can download empty mapping templates to fill them.** (Points to 'Download Mapping Template' button)
- You can download the automatically filled value mappings.** (Points to 'Download Values' button)
- When you upload the mapping values, you have different options:**
 - Confirm values automatically
 - Do not confirm values automatically
 - Replace existing values
 - Modify values / Add values

The 'Upload Mapping Values' screen shows options for 'Confirming Values' and 'Loading Values'.



Note that the files may contain target values that were created automatically (e.g. internal numbering). Ensure that you adjust the target values (or remove them completely in the files) before uploading the file to another system.

SAP S/4HANA migration cockpit – Direct Transfer



Migration object instances list

On the **Migration Object Instances** screen, you can view the records for each migration object instance.

The screenshot shows the SAP Migration Object Instances interface. Callouts provide the following information:

- The system offers various possibilities to search and filter the list.** (Points to search and filter fields)
- Use the gear wheel to select the columns to be displayed.** (Points to the gear icon)
- Click the arrow to view the migration object instance details.** (Points to the arrow icon)

The table below shows the migration object instances:

Controlling Area	Activity Type	Valid To Date	Activity Type Category	Variant Activity Type Category for Actual Postings	Additional Fields	Action	Status
0001	000101	99991231	1			Display All	Selected
0001	000102	99991231	1			Display All	Selected
0001	000103	99991231	2			Display All	Success

The details view shows the following data:

Client	Controlling Area	Activity Type	Valid To Date	Valid From Date	Activity Unit	Activity Type Category
950	0001	000101	9999-12-31	2017-01-01	H	1

SAP S/4HANA migration cockpit – Direct Transfer

Single instance processing – only Direct Transfer



On the **Migration Object Instances** list you can simulate, migrate or exclude single instances or have a look at the error messages.

To exclude a single instance, mark the entry, and press the *Exclude* button.

The screenshot shows the 'Migration Object Instances' list for 'CO - Activity type (32)'. Two entries are visible, both with status 'Success'. The 'Exclude' button in the 'Action' column is highlighted. A warning dialog box is open, asking for confirmation to exclude the selected instances. The 'Status' column shows 'Excluded'.

On the migration project screen, you will now find one excluded item. The number of items to be migrated (not started) has changed from "32" to "31".

The screenshot shows the 'Migration Project' screen for 'Demo_2020_DT'. The 'Migration' column shows 'Not Started: 31', indicating that one instance has been excluded from the migration process.

SAP S/4HANA migration cockpit – Direct Transfer

Mass processing - only Direct Transfer



On the **Migration Object Instances** list you can exclude, undo exclude, simulate and migrate instances in a mass processing.

The screenshot shows the 'Migration Object Instances' mass processing interface. It is divided into three sections: 1. Action, 2. Selection, and 3. Data Preview. The 'Action' section has radio buttons for 'Exclude', 'Undo Exclude', 'Simulate', and 'Migrate'. The 'Selection' section has filters for 'Controlling Area', 'Activity Type', 'Valid To Date', 'Activity Type Category', 'Variant Activity Type Category for Actual Postings', 'Indicator: Actual Allocation Price', 'Activity Unit', and 'Allocation Cost Element'. The 'Data Preview' section shows a table of instances.

You can filter a subset of instances and execute one of the following action:

- Exclude
- Undo exclude
- Simulate
- Migrate

Controlling Area	Activity Type	Valid To Date	Activity Type Category	Variant Activity Type Category for Actual Postings	Additional Fields	Source	Action	Status
0001	A	99991231	4		Display All		Selected	Success
0001	ACT1	99991231	4	4	Display All		Selected	Success

SAP S/4HANA migration cockpit – Direct Transfer Simulation / migration



On the **Migration Project** screen, you can choose, which items you want to simulate / migrate.

Example migration: migrate single items (on the migration object screen), migrate random 10% or random 500 items, migrate only instances with errors, migrate all successfully simulated instances or migrate all instances.

The screenshot shows the 'Migration Project' screen with a table of migration objects. A yellow box highlights the 'Actions' dropdown menu, which includes options like 'Simulate' and 'Migrate'. Another yellow box highlights the 'All Successfully Simulated Instances' option in the dropdown. A third yellow box highlights the 'Migrate' button in the 'Mapping Tasks' dropdown. A fourth yellow box highlights the 'All Instances' option in the 'New Migration' dialog. A fifth yellow box highlights the 'Random 10%' and 'Random 500' options in the 'New Migration' dialog. A sixth yellow box highlights the 'All Instances' option in the 'New Migration' dialog.

You can simulate/migrate **several migration objects** at once

- Simulation: selecting all instances or all instances with errors
- Migration: selecting all instances, the ones with errors or all successfully simulated instances

You can simulate/migrate **only one migration object** and choose different options.

SAP S/4HANA migration cockpit – Direct Transfer Migration project screen – more buttons



On the **Migration Project** screen, you trigger all the steps that are required to transfer the data for each migration object to the target SAP S/4HANA system. In addition you can quick access additional information and tasks.

The screenshot shows the 'Migration Project' screen with a table of migration objects. A yellow box highlights the 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project' buttons in the top right corner. A yellow box highlights the 'CO - Cost center' row in the table, which is selected. A yellow box highlights the 'Mapping Tasks' dropdown menu for the selected row.

Buttons for quick access:

- **Monitoring** – to view a log of all activities
- **Mapping tasks** – all mapping tasks for your project
- **Job management** – adjust number of background jobs
- **Settings** – general settings e.g. add new migration objects
- **Finish project**

See more details in application help.

SAP S/4HANA migration cockpit – Direct Transfer Monitoring



On the **monitoring** screen, you can view the active and completed activities.

The screenshot shows the SAP Monitoring interface for a migration project. At the top, there are filter fields for Type, Name, Action, Started by, Started at, and Finished On, along with a Status dropdown and a 'Go' button. Below this is a table of activities. The first activity is 'Download mapping values' for 'Demo_2020_DT', which is completed and has a 'Download File' button. The second activity is 'Select data' for 'CO - Cost center', which is completed and has a 'Show Messages' button. The third activity is 'Select data' for 'CO - Cost center', which is completed and has a 'Show Messages' button. The fourth activity is 'Select data' for 'CO - Activity type', which is completed and has a 'Show Messages' button.

Activity	Object Type	Started By/On	Status	Options
Download mapping values Demo_2020_DT	Migration Project	25.09.2020, 13:54:04	Finished On: 25.09.2020, 13:54:05 Runtime: 1 Minutes	Download File
Select data CO - Cost center	Migration Object	25.09.2020, 10:55:30	Finished On: 25.09.2020, 10:56:10 Runtime: 1 Minutes	Show Messages
Select data CO - Cost center	Migration Object	25.09.2020, 10:49:29	Finished On: 25.09.2020, 10:50:14 Runtime: 1 Minutes	Show Messages
Select data CO - Activity type	Migration Object	25.09.2020, 10:49:25	Finished On: 25.09.2020, 10:50:41 Runtime: 2 Minutes	Show Messages

Callouts:

- The system offers various possibilities to search and filter the list.
- You can view the downloaded files (e.g. downloaded mapping values.)
- You can have a look at the messages for a single activity.

SAP S/4HANA migration cockpit – Direct Transfer Technical preconditions



Technical preconditions

- SAP ERP to SAP S/4HANA, the lowest supported ERP release is ERP 6.0 (SAP NetWeaver 7.0),
- SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA, the supported release is AFS 6.0,
- SAP EWM to decentralized EWM, the lowest supported EWM release is EWM 5.1 (SAP NetWeaver 7.0).
- SAP CRM to SAP S/4HANA for customer management, lowest supported release is SAP CRM 7.0

Necessary preparations in the system landscape

- The add-on DMIS_2011 SP19 or higher needs to be installed in the source system (included in the license for SAP S/4HANA 2020)
- RFC connection from ERP/AFS/EWM/CRM source to SAP S/4HANA target system
- Setup FIORI
- Apply necessary notes: start with [Composite SAP Note 2747566](#)
- Check customizing: relevant customizing in the target must be available (for example, organizational units, define document type for migration, define accounts for migration, remove account blocks)
- Ensure availability of required authorizations

SAP S/4HANA migration cockpit – Direct Transfer


Process-related preparations



Define a mapping strategy between SAP source and SAP S/4HANA target

- Standard APIs are used to load the data into SAP S/4HANA target system
- Where configuration in the source deviates from the configuration in the target, adequate mappings have to be defined upfront, such as rename of organizational units, cost centers, document types,
- In case of questions carefully check the object-related documentation

Test and productive migration

- First create a project in a development system and then transport the project to a test system, which is a copy of the production system.
- The more the data in the test system resembles the data in the production system, the more precise the test.
- Several test data migrations are required before you transfer data to the SAP S/4HANA production system.
- For each new test data migration, you transport a migration project that includes any corrections or refinements. 
- You transport your project from the development system to your productive system once the tests have been executed successfully
- Mapping value download and upload
 - You can download mapping values of your previous test and upload them into your new project. Note, that you might need to adapt the mapping values before you upload them to the new system e.g. so that you do not upload value mapping from internal numbering.

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SAP S/4HANA migration cockpit – Direct Transfer

Migration object modeler

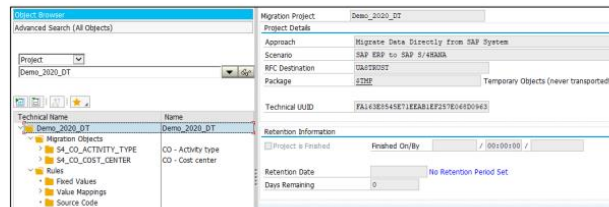


Flexible and extendable



**Transaction:
LTMOM**

- Create user defined migration objects using a wizard
- Add customer tables or fields to a standard migration object or to a new migration object
- Add or change selection criteria of standard migration objects or user defined migration objects
- Possibility to add projects, migration objects, and rules (mapping tasks) to a transport request
- Debug the transformation and/or the posting process
- Use standard APIs or code your function module
- Copy migration objects
- Create or edit transformation rules
- Mapping download and upload






SAP S/4HANA migration cockpit - Migrate data directly from SAP system – migration scenarios

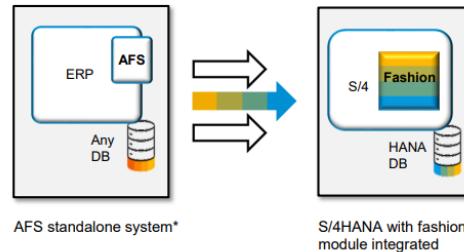
SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit - migrate data directly from SAP system




 Migrate data directly from SAP System
 Selection of data from SAP source system via RFC
 Data Selection based on company code


 79 Pre-defined AFS specific migration objects are supported

 Capability to derive complex selection criteria automatically from company code



SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit – create new migration project



SAP New Migration Project

1 General Data 2 Data Selection

1. General Data

Here, you specify general information for your project. Note that it will not be possible to change the scenario or the development package after you create the project.

Migration Approach: Migrate Data Directly from SAP System

Name: *
New Migration Project AFS

Scenario: *
SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

Connection to Source System: *
LOKCLNT200

Development Package: *
\$tmp

Step 2

Select your scenario:
SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

Enter a source system connection

Enter a valid development package

SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit – create new migration project



2. Data Selection

The Migration Cockpit uses organizational units such as company codes to select data from the source system. These organizational units are predefined for each scenario. For example, the scenario SAP ERP to SAP S/4HANA uses company codes to select data from the source system. Only data that is relevant for the specified organizational units will be selected from the source system.

Company Code: *
0001 (SAP A.G.)

Step 2

Data selection based on company code (depending on migration scenario)

SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit – select migration objects



3. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

Search

Available Migration Objects	Predecessor	Documentation
<input type="checkbox"/> Name		
<input type="checkbox"/> AFS - Configuration class for material grid	1	Documentation
<input type="checkbox"/> AFS - Dimensional characteristic	2	Documentation
<input type="checkbox"/> AFS - Distribution curve	2	Documentation
<input type="checkbox"/> AFS - Distribution curve condition	2	Documentation
<input type="checkbox"/> AFS - Non-dimensional characteristic	2	Documentation
<input type="checkbox"/> AFS - Planned Indep. reqt at material level	1	Documentation
<input type="checkbox"/> AFS - Planned Indep. reqt at SKU level	1	Documentation
<input type="checkbox"/> AFS - Purchase grid condition record	2	Documentation
<input type="checkbox"/> AFS - Quantity distribution profile	1	Documentation
<input type="checkbox"/> AFS - Sales grid condition record		
<input type="checkbox"/> AFS - Segmentation default values		
<input type="checkbox"/> AFS - Segmentation strategy		
<input type="checkbox"/> AFS - Segmentation structure	1	Documentation
<input type="checkbox"/> AFS - Value added service	1	Documentation
<input type="checkbox"/> Bank		
<input type="checkbox"/> Batch unique at plant level	3	Documentation
<input type="checkbox"/> Class	2	Documentation
<input type="checkbox"/> CO - Activity type	3	Documentation
<input type="checkbox"/> CO - Activity type group		
<input type="checkbox"/> CO - Business process		
<input type="checkbox"/> CO - Business process group		

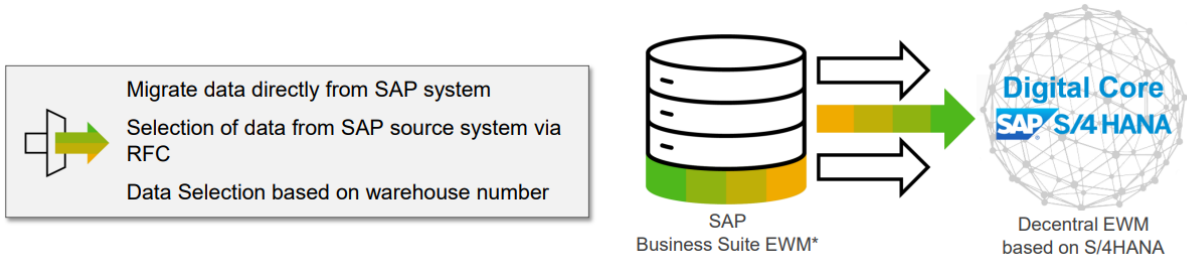
Preconfigured migration content: List of available migration objects

Selected Migration Object	Predecessor	Documentation
<input type="checkbox"/> Name		
<input type="checkbox"/> AFS - Article	3	Documentation
<input type="checkbox"/> AFS - Season	1	Documentation

Select migration objects in scope

SAP EWM to decentralized EWM based on SAP S/4HANA

SAP S/4HANA migration cockpit - migrate data directly from SAP system



Preconfigured migration objects

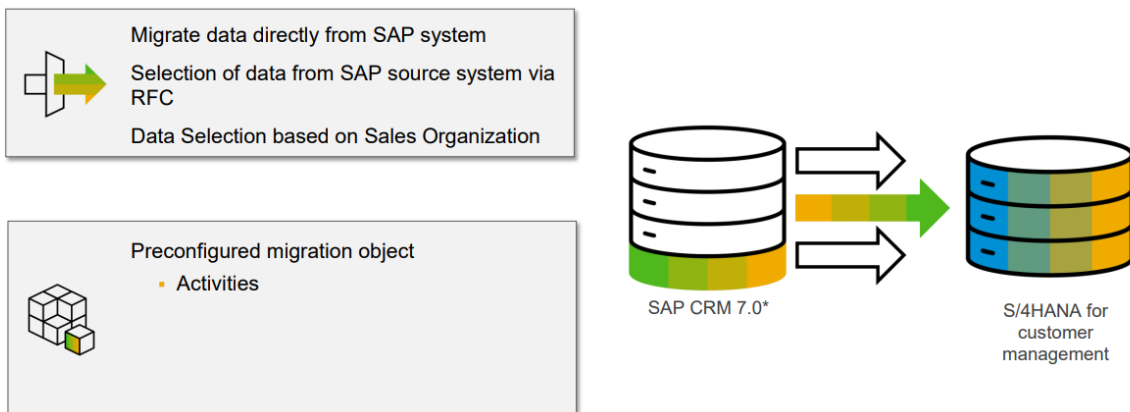
- Material flow system
- Physical inventory settings
- Production supply area
- Resource and user maintenance
- Resource execution settings
- Resource group and queue settings
- Shipping and receiving settings
- Warehouse application log settings
- Warehouse fixed bin assignment log settings
- Warehouse storage bin sorting
- Warehouse product
- Warehouse stock
- Warehouse storage bin
- Workcenter dependent settings
- Workcenter determination

*Prerequisite for Migrate data directly from SAP System: DMIS installation in source

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SAP CRM to SAP S/4HANA for customer management

SAP S/4HANA migration cockpit - migrate data directly from SAP system








*Prerequisite for transfer data directly from SAP System: DMIS installation in source

SAP S/4HANA migration cockpit – comparison of migration approaches in 1909

	 Transfer data using files	 Transfer data using Staging Tables	 Transfer data directly from SAP system
Availability	 	 	
Source system	Any source system (SAP or non-SAP)	Any source system (SAP or non-SAP)	ABAP-based SAP source systems
Data volume	Small and medium volumes of data	Large volumes of data	Any volumes of data
Data provisioning	XML template files filled by customers	Staging Tables filled by customers (using e.g. SAP Data Services, SDI, SAP HANA Studio, open SQL, or any 3rd party ETL Tools)	Data selected and extracted directly from SAP system
Data cleansing	Before starting the migration project, or in the XML template files	Before starting the migration project, or in the Staging Tables	Before starting the migration project. Note that you can always adjust the selection of data by using the migration object modeler

 [Back to age](#)

SAP S/4HANA migration cockpit – comparison of migration approaches in 2020

	 Migrate data using Staging Tables	 Migrate data directly from SAP system	
Availability	 		
Source System	Any source system (SAP or non-SAP)	ABAP-based SAP source systems	
Data Provisioning	XML template files filled by customers or via ABAP	Staging Tables filled by customers (using e.g. SAP Data Services, SDI, or any 3rd party ETL Tools)	Data selected and extracted directly from SAP system
Data cleansing	Before starting the migration project, or in the XML template files	Before starting the migration project, or in the Staging Tables	Before starting the migration project. Note that you can always adjust the selection of data by using the migration object modeler

SAP S/4HANA migration cockpit Migration objects

SAP S/4HANA migration cockpit

Preconfigured migration objects SAP S/4HANA

Download migration object list

Filter for migration approach*

Documentation available

Migration Object Name	Business Object Type	Migration Approach	Component
PM - Functional location task list			
PM - Functional location BOM			
PM - Functional location BOM			
PM - Functional location			
PM - Functional location	Master data	Direct Transfer - ERP	PM

SAP S/4HANA migration cockpit

New migration objects “Staging” for 2020



- New objects in 2020**
- FI - G/L account
 - FI - G/L account - extend existing record by new org levels
 - SEPA mandate
 - ECM - Change Master
 - EFD - Reinf report
 - TRM - Foreign exchange spot/forward transaction -contract
 - TRM - Foreign exchange swap - contract
 - TRM - Interest rate instrument
 - TRM - Deposit at notice
 - TRM - Commercial paper
 - TRM - FX option
 - TRM - Position value
 - PM - Measurement document
 - TRM - Foreign exchange collar - contract
 - Material listing and exclusions
 - EHS – Location

- New objects in 2020**
- JVA - Joint operation agreement
 - JVA - Joint venture master data
 - JVA - Joint venture partner
 - JVA - Venture suspense
 - JVA - Cost center suspense
 - JVA - Project suspense
 - JIT - Supply control
 - JIT - Package group
 - Product
 - Product - Extend existing with new org levels
 - DG - Assessment for unpackaged product (text-based)
 - DG - Assessment for packaged product (text-based)
 - DG - Assessment for unpackaged product (content-based)
 - QM - Inspection plan
 - VC - Characteristics group
 - VC - Material variant



SAP S/4HANA migration cockpit

New migration objects "Direct Transfer" for 2020

New objects for ERP

- Document info record (DMS)
- EHS - Location
- EHS - Location hierarchy
- VC - Assign global dependency to characteristic
- VC - Assign global dependency to class
- VC - Interface design (characteristic group)
- VC - Variant table entry
- VC - Variant table structure
- JIT - Customer
- JVA - Joint operating agreement (step 2)
- JVA - Joint venture master (step 2)
- Product classification (legal control)
- RE-FX Business partner roles
- TRM - Deposit at notice

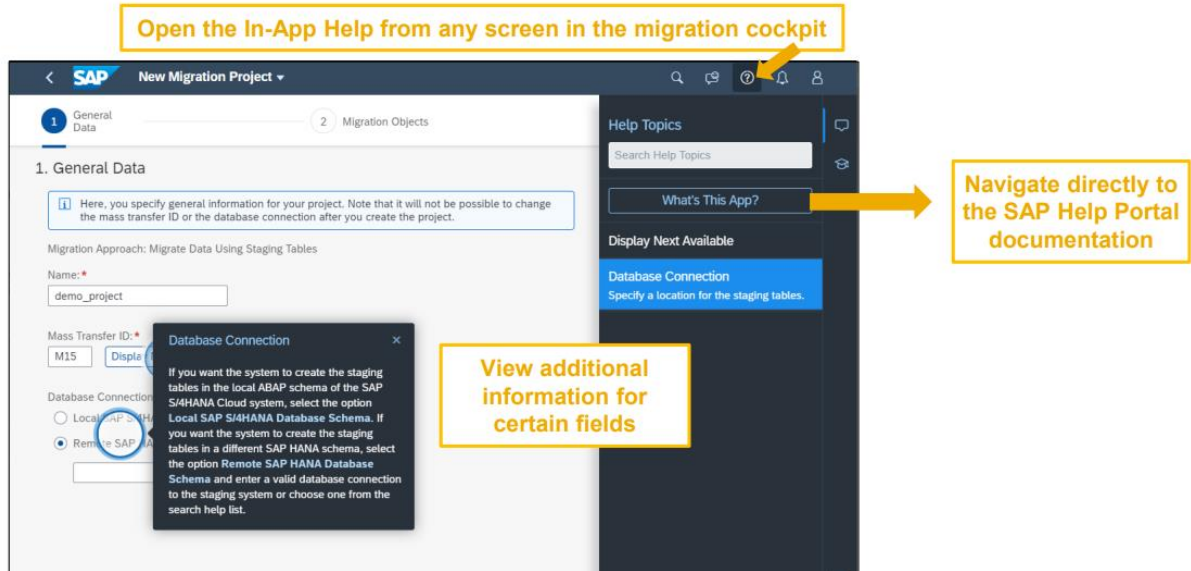
New objects for EWM

- Material flow system
- Physical inventory settings
- Production supply area
- Resource and user maintenance
- Resource execution settings
- Resource group and queue settings
- Shipping and receiving settings
- Warehouse application log settings
- Work center dependent settings
- Work center determinations

SAP S/4HANA migration cockpit – [development newsletters](#)

The screenshot shows the SAP S/4HANA migration cockpit development newsletters page. The page title is "Data Migration" with a sub-header "2020 Latest" and "English". A search bar is present. The main content area features a "Data Migration" heading and a "Send feedback" link. Below this, a "News" section lists two newsletters: "SAP S/4HANA Migration Cockpit – Development Newsletter" and "Data Migration Content Development Newsletter". A sidebar on the left contains navigation links: "Product Assistance", "Object-Related Information", "Getting Started", "Further Information", "SAP Best Practices", "Training and Education", "News", and "SAP Community". Two yellow callout boxes with arrows point to the "SAP S/4HANA migration cockpit - Tool" and "Data Migration Content – Migration Objects" sections of the page.

SAP S/4HANA migration cockpit - In-App Help now available



Preconfigured SAP S/4HANA sandbox system

Demo scripts for SAP S/4HANA migration cockpit available



SAP S/4HANA trial system (external link):

<https://www.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise-trial.html>

Product Information
Joerg Wolf
April 23, 2019 6 minute read

SAP S/4HANA Fully-Activated Appliance: Demo Guides

18 Likes 28,223 Views 23 Comments

This blog gives information on the pre-configured sample demo scenarios in the SAP S/4HANA Fully-Activated Appliance. If you stumbled across this blog "by accident" and are interested in bringing up your own preconfigured SAP S/4HANA sandbox system within a few hours, please see this overview for the SAP S/4HANA Fully-Activated Appliance.

Direct links to the most recent appliance releases in SAP CAL are:
SAP S/4HANA 1909 FPS01 / SAP S/4HANA 1909 SP00

Demo scripts for SAP S/4HANA migration cockpit

- File approach (bank)
- File approach (material) LTMOM - file approach (cost center texts)
- Staging approach (G/L accounts)
- Direct Transfer approach (cost centers and activity types)
- LTMOM – Direct Transfer approach (cost center texts)
- Direct Transfer approach (material)
- Direct Transfer approach (vendor, CVI)

<https://blogs.sap.com/2019/04/23/sap-s4hana-fully-activated-appliance-demo-guides/>

System access for externals

External CAL: <https://cal.sap.com/catalog#/solutions/52c66f34-9174-4692-b64d-4c34b955d9bc>

SAP S/4HANA migration cockpit


SAP Notes and KBAs

Tip:
Run Report [DMC_NOTE_ANALYZER](#)
[Check SAP Note 2596411](#)



Composite SAP Note for migration cockpit CA-LT-MC


[2780378](#)
[Composite SAP Note for SAP S/4HANA migration cockpit \(all releases\)](#)



SAP S/4HANA

Collective SAP Note for Direct Transfer CA-LT-MC

[2747566](#)
[SAP S/4HANA migration cockpit Composite Note for Transfer Data Directly from SAP System](#)





SAP S/4HANA

Collective SAP Notes for File/Staging CA-GTF-MIG

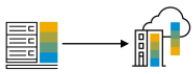
[2538700](#)
[Collective SAP Note and FAQ for SAP S/4HANA migration cockpit File/Staging \(Cloud\)](#)

[2537549](#)
[Collective SAP Note and FAQ for SAP S/4HANA migration cockpit File/Staging \(on premise\)](#)


SAP S/4HANA Cloud SAP S/4HANA

Facilitate migration projects with SAP S/4HANA migration cockpit



1. Tool of choice for migration to SAP S/4HANA

- Part of SAP S/4HANA and SAP S/4HANA Cloud (included in these licenses)
- Ready-to-use solution
- Support for customers with new implementations



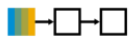
2. Preconfigured migration content specific to SAP S/4HANA

- Comprehensive set of preconfigured migration objects, such as customers, suppliers, and so on
- Automated mapping between source data and SAP S/4HANA target values




3. Integrated in SAP Activate methodology

- Proven methodology integrated in SAP Activate road map: *Transition to SAP S/4HANA*
- Best practices




4. Easy and safe migration

- Direct data transfer from SAP source systems (new with SAP S/4HANA 1909)
- Step-by-step guidance through the migration process
- Template files for each migration object
- Data validation to ensure high-data quality and consistency



5. Flexible and extendable

- Migration object modeler for custom requirements
- Ability to extend existing SAP migration objects
- Integration of custom objects



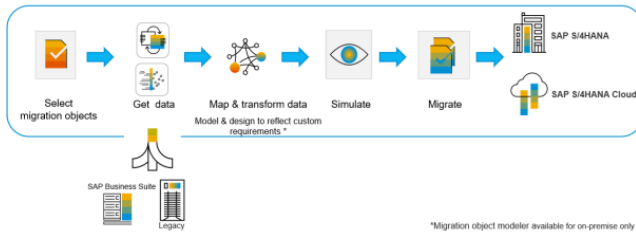
6. Outlook

- Improved functionality to plan, track and document the data migration
- Provide additional migration content
- Improve handling of error message

Key takeaways

SAP S/4HANA migration cockpit – the next-generation data migration software

- Included in SAP S/4HANA and SAP S/4HANA Cloud license and shipment
- Made for migrating data from SAP and non-SAP sources into SAP S/4HANA and SAP S/4HANA Cloud
- Guided procedure takes users through the migration process: Easy and safe, no programming required
- Flexible for integration of custom business data including data transformations



Migration approaches

Data Transfer

- Migrate data using Staging Tables
- Migrate data directly from SAP system

Predefined SAP S/4HANA-specific migration content facilitates and accelerates your data migration

- Preconfigured content and mapping
- Automated mapping between template and target structure
- Migration programs generated automatically

Customer-specific migration content can be flexibly included

- Integration of customer-built objects
- Customer-specific enhancements to SAP standard objects (for example: add new fields)

SAP tools and services

